Car Stereo Cross-over Filter 22DXO300/00

Service
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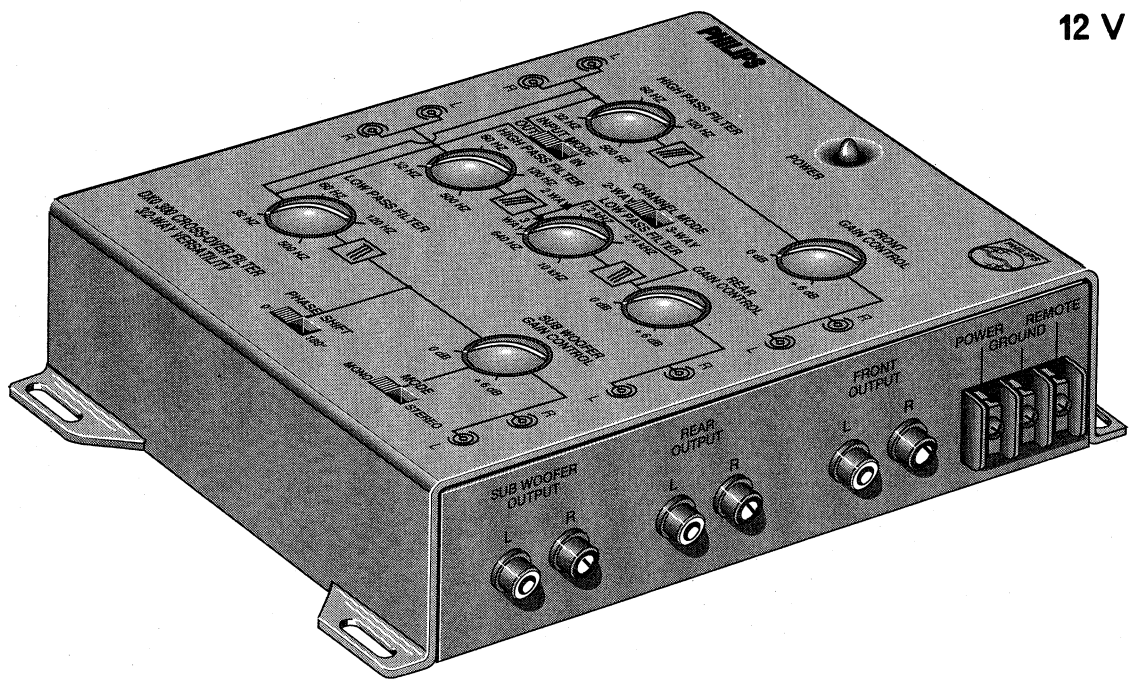
Service Manual

12 V



Cross-over frequencies:	
2 way, low to mid/high	32 Hz - 500 Hz
3 way, low to mid	32 Hz - 500 Hz
band pass	32 Hz - 10 kHz
mid to high	640 Hz - 10 kHz
Slope rate:	
low pass	12 to 18 dB/Octave
band pass	12 dB/Octave
high pass	12 dB/Octave
Gain controls:	
front/rear	0 to +6 dB
subwoofer	0 to +12 dB
Low frequency channel	Boost of a maximum of 24 dB at 45 Hz Phase inventor of 180 degrees Stereo to mono switch

THD (20 Hz - 20 kHz)	0.05%
Signal to noise ratio	95 dB
CMR (Common Mode Refection)	>60 dB
Frequency response	16 Hz - 120 kHz (-3 dB)
Stand - by current	1.0 mA
Input impedance	10 kΩ
Output impedance	<100 Ω
Max. input voltage (RMS)	2.5 V
Max. output voltage (RMS)	5.0 V
DC input (operating voltage)	10.8 - 15.6 V
Maximum current	190 mA
Fuse size	1 A
Size L x W x H (mm.)	180 x 150 x 45
L x W x H (inches)	7.08 x 5.90 x 1.77

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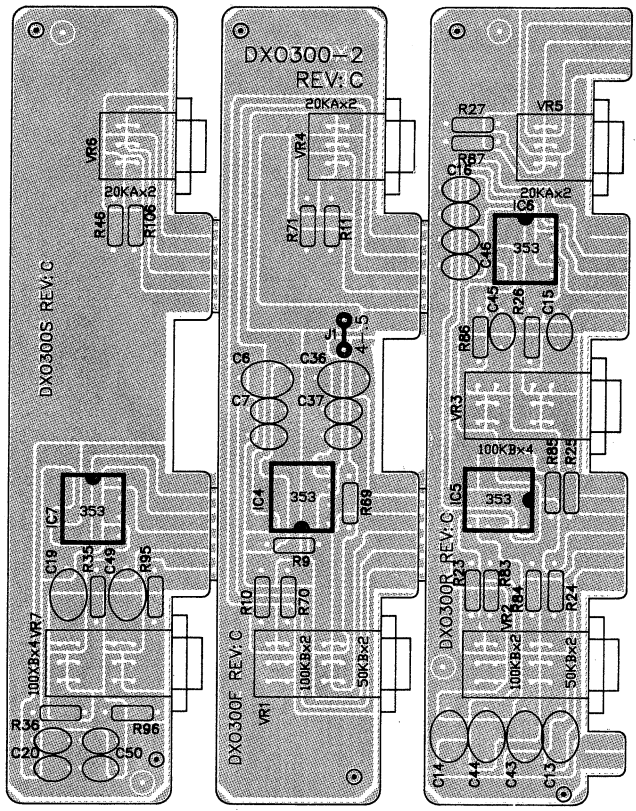
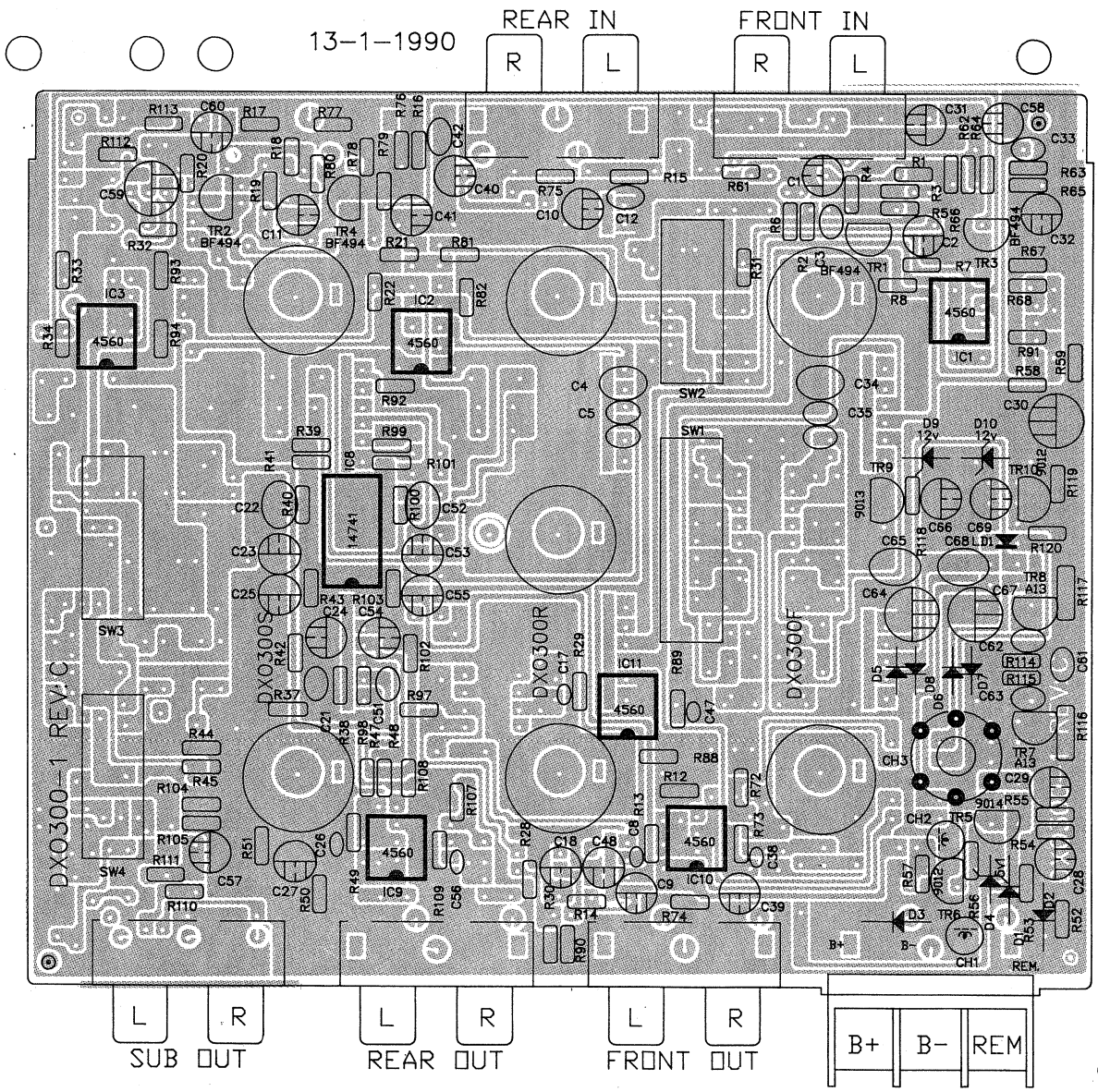
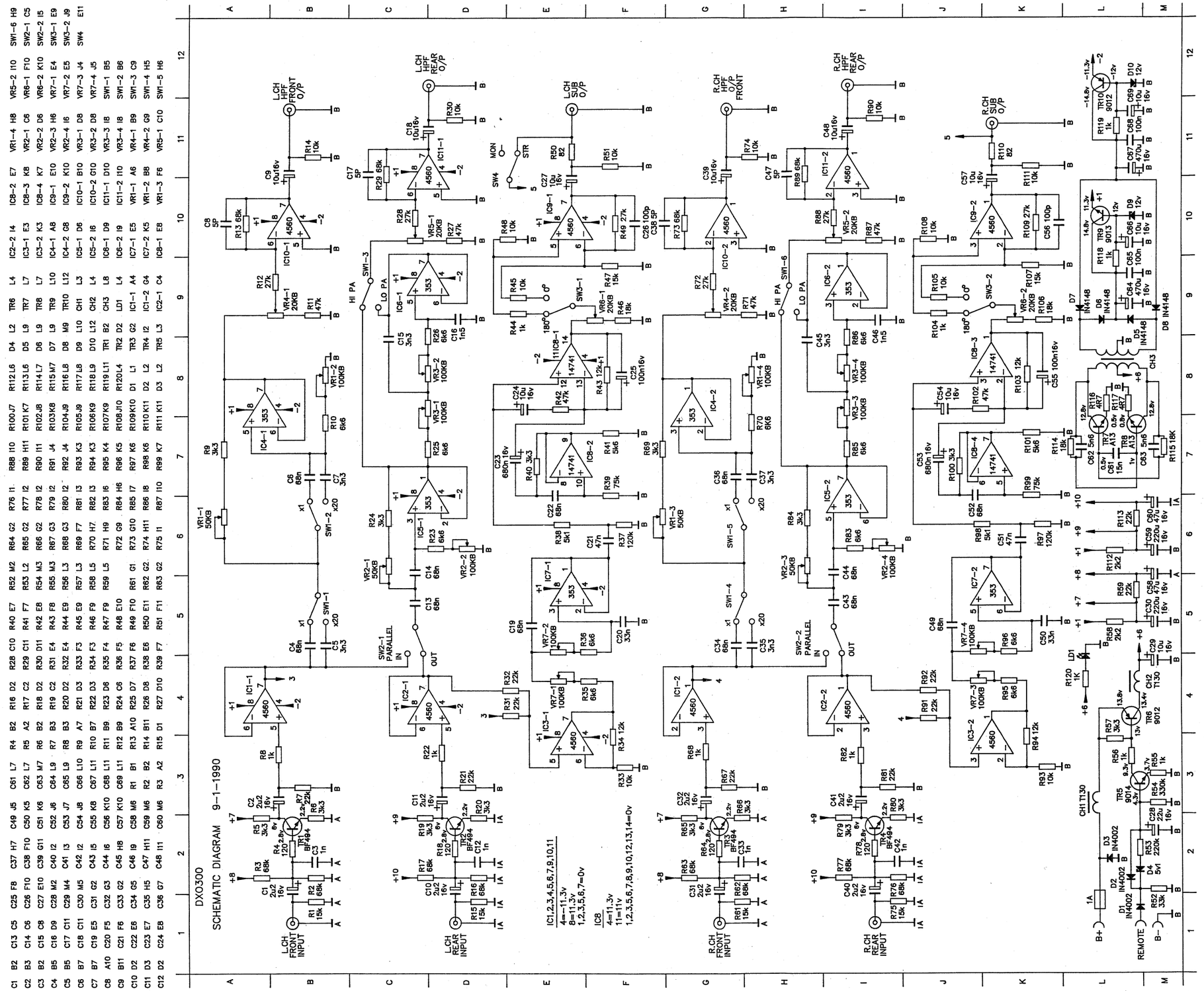

DXO300-2
REV:C
DXO300S REV:C
DXO300F REV:C
DXO300R REV:C
20KAx2
100KBx4
100KBx2
50KBx2
353


13-1-1990
REAR IN
FRONT IN
R
L
DXO300-1 REV:C
DXO300S
DXO300R
DXO300F
4560
4741
BF494
9013
9014
12v
SW1
SW2
SW3
SW4
L
R
SUB OUT
REAR OUT
FRONT OUT
B+
B-
REM

CS 38 140



C1	B2	C13	C5	C25	F8	C37	H7	C49	J5	C61	L7	R4	B2	R16	D2	R28	C10	R40	E7	R52	M2	R64	G2
C2	B3	C14	C6	C26	F10	C38	F10	C50	K5	C62	L7	R5	A2	R17	C2	R29	C11	R41	F7	R53	L2	R65	G2
C3	B2	C15	C8	C27	E10	C39	G11	C51	K6	C63	M7	R6	B2	R18	D2	R30	D11	R42	E8	R54	M3	R66	G2
C4	B5	C16	D9	C28	M2	C40	I2	C52	J6	C64	L9	R7	B3	R19	C2	R31	E4	R43	F8	R55	M3	R67	G3
C5	B5	C17	C11	C29	M4	C41	I3	C53	J7	C65	L9	R8	B3	R20	D2	R32	E4	R44	E9	R56	L3	R68	G3
C6	B7	C18	C11	C30	M5	C42	I2	C54	J8	C66	L10	R9	A7	R21	D3	R33	F3	R45	E9	R57	L3	R69	F7
C7	B7	C19	E5	C31	G2	C43	I5	C55	K8	C67	L11	R10	B7	R22	D3	R34	F3	R46	F9	R58	L5	R70	H7
C8	A10	C20	F5	C32	G3	C44	I6	C56	K10	C68	L11	R11	B9	R23	D6	R35	F4	R47	F9	R59	L5	R71	H9
C9	B11	C21	F6	C33	G2	C45	H8	C57	K10	C69	L11	R12	B9	R24	C6	R36	F5	R48	E10			R72	G9
C10	D2	C22	E6	C34	G5	C46	I9	C58	M6	R1	B1	R13	A10	R25	D7	R37	F6	R49	F10	R61	G1	R73	G10
C11	D3	C23	E7	C35	H5	C47	H11	C59	M6	R2	B2	R14	B11	R26	D8	R38	E5	R50	E11	R62	G2	R74	H11
C12	D2	C24	E8	C36	G7	C48	I11	C60	M6	R3	A2	R15	D1	R27	D10	R39	F7	R51	F11	R63	G2	R75	I1

R75	I1	R87	I10	R99	K7	R111	K11	D3	L2	TR5	L3	IC2–1	C4	IC8–1	E8	VR1–3	F6	VR5–1	C10	SW1–5	H6			
R74	H11	R86	I8	R98	K6	R110	K11	D2	L2	TR4	I2	IC1–2	G4	IC7–2	K5	VR1–2	B8	VR4–2	G9	SW1–4	H5			
R73	G10	R85	I7	R97	K6	R109	K10	D1	L1	TR3	G2	IC1–1	A4	IC7–1	E5	VR1–1	A6	VR4–1	B9	SW1–3	C9			
R72	G9	R84	H6	R96	K5	R108	J10	R120	L4	TR2	D2	LD1	L4	IC6–2	I9	IC11–2	I10	VR3–4	I8	SW1–2	B6			
R71	H9	R83	I6	R95	K4	R107	K9	R119	L11	TR1	B2	CH3	L8	IC6–1	D9	IC11–1	D10	VR3–3	I8	SW1–1	B5			
R70	H7	R82	I3	R94	K3	R106	K9	R118	L9	D10	L12	CH2	L4	IC5–2	I6	IC10–2	G10	VR3–2	D8	VR7–4	J5			
R69	F7	R81	I3	R93	K3	R105	J9	R117	L8	D9	L10	CH1	L3	IC5–1	D6	IC10–1	B10	VR3–1	D8	VR7–3	J4	SW4	E11	
R68	G3	R80	I2	R92	J4	R104	J9	R116	L8	D8	M9	TR10	L12	IC4–2	G8	IC9–2	K10	VR2–4	I6	VR7–2	E5	SW3–2	J9	
R67	C3	R79	I2	R91	J4	R103	K8	R115	M7	D7	L9	TR9	L10	IC4–1	A8	IC9–1	E10	VR2–3	H6	VR7–1	E4	SW3–1	E9	
R66	G2	R78	I2	R90	I1	R102	J8	R114	L7	D6	L9	TR8	L7	IC3–2	K3	IC8–4	K7	VR2–2	D6	VR6–2	K10	SW2–2	I5	
R65	G2	R77	I2	R89	H11	R101	K7	R113	L6	D5	L9	TR7	L7	IC3–1	E3	IC8–3	K8	VR2–1	C6	VR6–1	F10	SW2–1	C5	
R64	G2	R76	I1	R88	I10	R100	J7	R112	L6	D4	L2	TR6	L4	IC2–2	I4	IC8–2	E7	VR1–4	H8	VR5–2	I10	SW1–6	H9	

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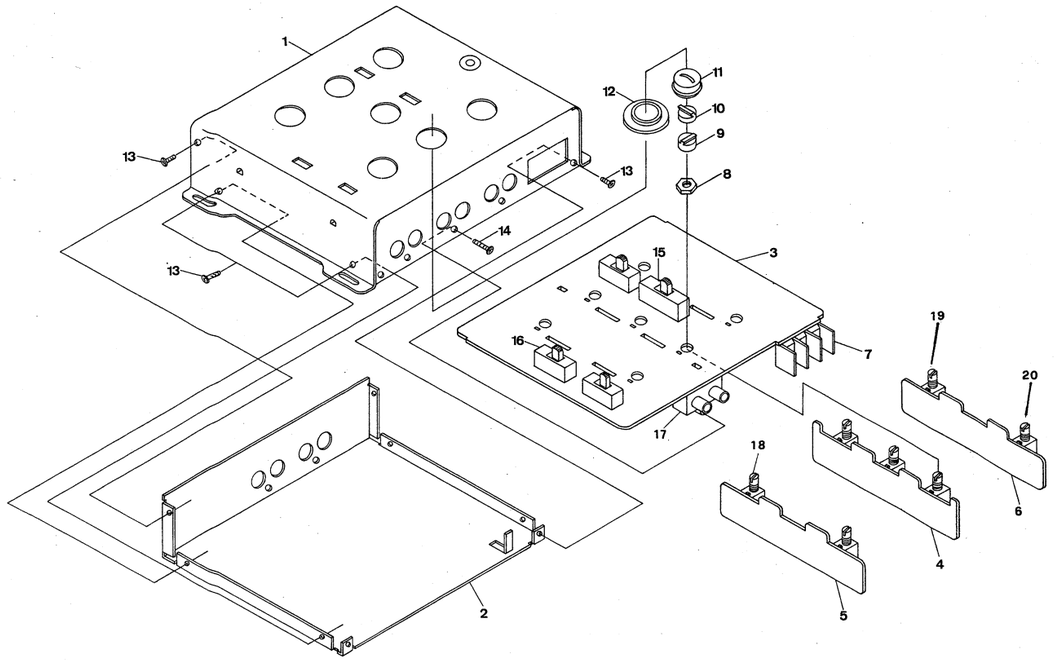

1	4822 459 50621	TOP COVER
2	4822 459 50622	BOTTOM COVER
7	4822 290 61026	TERMINAL
8	4822 505 11101	NUT
9	4822 462 71769	CAP
10	4822 462 71768	CROSS JOINT
11	4822 413 31662	KNOB
12	4822 532 12077	KNOB HOLDER
15	4822 277 21526	SWITCH 6 POLE
16	4822 277 21527	SWITCH 4 POLE
17	4822 267 31361	CINCH CONNECTOR
18	4822 101 30759	POTMETER 100K
19	4822 101 30761	POTMETER 50K
20	4822 101 30758	POTMETER 20K
	4822 321 61253	FUSE HOLDER

MISCELLANEOUS

4822 157 63295	COIL CH1,2
4822 157 63294	COIL CH3
4822 130 82603	LED RED
4822 277 21526	SWITCH 6 POLE
4822 277 21527	SWITCH 4 POLE

4822 209 63933	BA4560
4822 209 63929	BA14741
4822 209 30005	NJM353D
4822 130 44195	BF494B
4822 130 62724	9012F
4822 130 60644	9014C
5322 130 61418	A13
4822 130 62739	9013

5322 130 30684	1N4002
4822 130 30621	1N4148
4822 130 34233	ZENER 5V1
4822 130 34197	ZENER 12V

4822 050 14702	4.7Ω 1/8W 5%
4822 050 18209	82 1/8W 5%
4822 050 11201	120Ω 1/8W 5%
4822 050 11002	1k 1/8W 5%
4822 050 11502	1k5 1/8W 5%
4822 050 12202	2k2 1/8W 5%
4822 050 13302	3k3 1/8W 5%
4822 050 15102	5k1 1/8W 5%
4822 050 15602	5k6 1/8W 5%
4822 116 83028	6k6 1/8W 5%
4822 050 11003	10k 1/8W 5%
4822 050 11203	12k 1/8W 5%
4822 050 11503	15k 1/8W 5%
4822 050 11803	18k 1/8W 5%
4822 050 12203	22k 1/8W 5%
4822 050 12703	27k 1/8W 5%
4822 050 11004	33k 1/8W 5%
4822 050 14703	47k 1/8W 5%
4822 050 16803	68k 1/8W 5%
4822 050 17503	75k 1/8W 5%
4822 050 11204	120k 1/8W 5%
4822 050 13304	330k 1/8W 5%
4822 101 30758	POTMETER 20K
4822 101 30761	POTMETER 50K+100K
4822 101 30759	POTMETER 100K

4822 126 11514	100pF 50V 10%
4822 126 11534	5pF 50V 10%
4822 126 11516	1nF 50V 10%
4822 126 11528	1.5nF 50V 10%
4822 126 11529	3.3nF 50V 10%
4822 126 11531	5.6nF 50V 10%
4822 126 11526	15nF 100V 10%
4822 126 11527	47nF 50V 10%
4822 126 11505	68nF 100V 10%
4822 126 11513	100nF 50V 10%
4822 126 11532	100nF 16v 20%
4822 126 11533	680nF 16V 20%
4822 124 23698	10µF 16V 20%
4822 124 23765	22µf 16V 20%
4822 124 23763	33µF 50V 10%
4822 124 23699	47µF 16V 20%
4822 124 40181	220µF 16V 20%
4822 124 40198	470µF 16V 20%